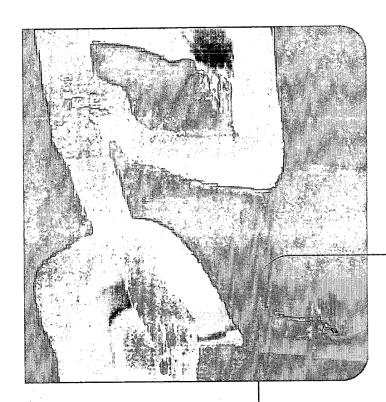
unigema



A Personal Care product development guide

Creating your advantage

A New Formulary Guide from A New Business

Welcome to the new Uniqema Personal Care Formulary. This edition of our formulary contains more than 50 product formulations featuring Uniqema products and other commonly available ingredients. They represent literally hundreds of years of experience in the development of high quality, innovative personal care products.

About Us

On January 1, 1999 Uniqema was formed as a new business with the international network and accumulated experience of an established market leader.

This new business combines the talents and skills of several members of the ICI Group - ICI Surfactants, ICI Synthetic Lubricants, Mona Industries, Solaveil and Unichema International - and brings together the talents, skills and technologies used in well known brand names such as TWEEN*, ESTOL*, ARLACEL* and MONASIL*, to mention a few.

The Health & Personal Care business of Uniqema will focus on market sectors where we can add the most value including skin care, hair care, toiletries and decorative cosmetics. We offer specialized emulsion systems, traditional emulsifiers, mild specialty cleansers, conditioners, foamers, inorganic sunscreens, and emollients.

Uniqema works with ICI companies National Starch & Chemical and Quest International to provide the ultimate resource for creating your advantage within the Health and Personal Care sectors. In all that we do, we ar *Building Bridges* betw en our platforms of technology and your market challenges.

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Antibacterial Hand Wash

Clear Antibacterial Hand Wash

Milk Lipid Enriched Facial Cleanser

Conditioning Facial Cleanser with Salicylic Acid

Body Cleanser for Sensitive Skin

Clear Conditioning Body Wash

Hand and Body Lotion

Skin Therapy Creme

Very Liquid Water-in-Oil Body Lotion

W/O/W Intensive Moisturizer

Oil Free Pearlescing Cream

O/W Conditioning Lotion with Light Feel

Conditioning Low Viscous Sprayable Lotion

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Moisturizing Sunscreen

Milk Enriched Sunscreen Stick

Self-Tanning Lotion

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Moisturizing Makeup Foundation

Milk Lipid Enriched Stick Base

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Family Shampoo

Neutralizing Shampoo

Herbal Shampoo

Shampoo For Color-Treated Hair

Leave-on Scalp & Hair Conditioner

Rejuvenating Hair Conditioner

Heat Active Conditioner

Hair Conditioner with Aloe for Sun-Damaged Hair

Shine Rejuvenator

Conditioning Gel Pomade

Odorless Creme Relaxer

Alcohol-Free No Voc Hair Spray

Alcohol-Free Aerosol Mist Spray

Finishing Pump Spray

HAND CLEANSER

This mild cleanser easily removes soil from hands and leaves the skin feeling silky smooth.

Ingredients	% by weight	
Water	56.5	
MONATERGE 1	164 40.0	
MONAMID 716	3.0	
ESTOL 3750	0.5	
	100.0	
Procedure		
Mix ingredients w	hile warming to 65°C.	
Agitate until uniform. Cool and adjust pH		
to 6.5. Add color, fragrance and		
preservative. Pac	kage.	
Typical Propert	ies	
Appearance	Pearlized viscous	

liquid

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Ingredients	% by weight
Part A	
MONAMID 716	2.5
MONATERGE 779	10.0
Parachlorometaxylenol	0.2
Part B	
Water	78.3
Neodol 25-3A	8.0
PHOSPHOLIPID PTC	1.0
	100.0

Procedure

Blend Part A. Make sure PCMX is dissolved, heat if necessary. Blend Part B into Part A. Adjust pH to 7.0. Add color, fragrance and preservative. Package.

Typical Properties

Appearance Clear viscous liquid

ANTIBACTERIAL HAND WASH A premium liquid cleansing system that leaves a long lasting soft and smooth after-feel.

Ingredients %	by weight
Water	44.3
Ammonium Lauryl Sulfate (28%	6) 23.0
Sodium Lauryl-2 Sulfate (26%) 21.5
PROMIDIUM CO	3.5
MONATERIC LMAB	3.0
PHOSPHOLIPID CDM	2.5
PRICERINE® 9088	1.0
Triclosan	0.2
MONAMATE RMEA-40	0.7
Disodium EDTA	0.2
Citric Acid	0.1
	100.0
Procedure	

With stirring, combine all ingredients except triclosan. Heat mixture to 55°C and add triclosan. Cool to 40°C. Add color and fragrance. Adjust the pH to 6 with citric acid.

Formulation Properties

Appearance	Clear liquid
Solids (%)	18
Viscosity @ 25°C	5400 cP

ANTIBACTERIAL HAND WASH S K This waterless hand wash provides excellent cleansing and removal of dirt N and germs. Apply to soiled hands, rub in and rinse or towel off. R E

CLEAR

Ingredients	% by weight
Part A	
Ethanol (95%)	63.0
Hydroxypropyl Cellulose	1.0
Part B	
Propylene Glycol	5.0
PHOSPHOLIPID CDM	3.0
Part C	
Water	28.0
	100.0

Procedure

Blend hydroxypropyl cellulose and ethanol with high speed agitation.

Separately, mix PHOSPHOLIPID CDM, propylene glycol and water. Add part A to part B mix until uniform. Add water, color and fragrance. Package.

Typical Properties

Appearance Clear colorless liquid

pH 6.0

Viscosity @ 25°C 1000 cP

MILK LIPID ENRICHED FACIAL CLEANSER

The combination of MONALAC MPL, MONALAC MO and MONALAC MAB provides gentle and thorough cleansing, while imparting a soft, clean feel to the skin. It does not leave facial skin feeling taut.

Ingredients	% by weight	
Water	55.0	
Sodium Laureth-2 Sulfate (26%)	35.0	S
MONALAC MPL	2.0	K
MONALAC MO	2.0	1
Sodium Chloride	1.0	
MONALAC MAB	5.0	N
	100.0	

Procedure

Add in the order listed and adjust pH to
7.0. Add color, fragrance and preservative.

Package.

Typical Properties

Appearance		Clear liquid
Viscosity @ 25°C	÷	7,500 cP

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Ingredients	% by weight
Water	44.0
Sodium C14-16 Olefin Sulfonate (40%)	40.0
MONALAC MAB	10.0
PHOSPHOLIPID GLA	2.0
Sodium Chloride	2.0
Salicylic Acid	2.0
	100.0

Procedure

Add first three ingredients with mild heat. Sequentially, blend in remaining ingredients, then add color, fragrance and preservative. Package.

Typical Properties

Appearance	Clear viscous liquid
Viscosity @ 25°C	13,500 cP
рН	4

BODY CLEANSER FOR SENSITIVE SKIN

This high-foaming ultra-mild formula-tion provides gentle cleansing and leaves the skin with an unusually soft and smooth afterfeel.

Ingredients	% by weight
arlatone MAP 230K-40	32.2
Sodium Laureth-2 Sulfate (26%)	49.5
MONATERIC CLV	17.0
ESTOL 3750	1.3
	100.0

Procedure

Blend ingredients; heat to 70°C. Stir cool to 40°C. Adjust pH to 6.5. Add color, fragrance and preservative as required. Package.

Typical Properties

Appearance Pearled lotion

Viscosity @ 25°C 4,000 cP

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CONDITIONING S **BODY WASH** K The following formula provides rich lather, excelle rinsibility and N cleansing properties while leaving the body C feeling fresh, clea and silky smooth R E

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Ingredients	% by weight
Water	14.6
Tetrasodium EDTA (40%)	0.3
Sodium Chloride	1.0
ARLATONE MAP 230 T-60	6.7
Sodium Laureth-2 Sulfate (2	26%) 46.4
Sodium Lauryl Sulfate (28%	S) 27.0
PROMIDIUM CO	4.0
	100.0

Procedure

Blend ingredients in the order listed.

Adjust the pH to 5.5. Add fragrance, color and preservative as required.

Typical Properties

Appearance	Clear viscous liquid
Viscosity @ 25°C	11,000 cP
Total Solids (%)	28.8

HAND AND BODY LOTION

This lotion is designed for use on traditionally dry areas such as elbows, hands and heels. The combination of PHOSPHOLIPID SV and MONASIL PCA provides strong substantivity, nongreasy emolliency and a soft silky after-feel.

Ingredients	% by weight	
Part A		
PHOSPHOLIPID SV	3.0	C
Propylene Glycol	2.0	S
Titanium Dioxide	0.4	V
Triethanolamine (99%)	0.6	K
Water	85.0	I
Part B		N.I
Cetyl Alcohol	2.0	IN
ARLATONE MAP 160	1.0	
Hexyl Laurate	4.0	
MONASIL PCA	2.0	C
	100.0	
		Α

Procedure

Heat Parts A and B separately to 60°C. Slowly add Part B to Part A with homogenization and continue blending for an appropriate time. Stir cool to 40°-45°C. Add color, fragrance and preservative. Package.

Typical Properties

Viscosity @ 25°C	100,000 cP
Hq	6.4

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Ingredients	% by weight
Part A	
PHOSPHOLIPID GLA	1.5
PHOSPHOLIPID SV	2.2
ARLATONE MAP 160	1.0
PRICERINE® 9088	2.0
Titanium Dioxide	0.5
Aminomethylpropanol	0.4
Water	80.4
Part B	
Cetyl Alcohol	2.0
BRIJ 72	2.0
PRISORINE 3758	0.8
ESTOL 1545	4.0
ESTOL 1517	2.4
Dimethicone 200/350 cS	8.0
	100.0

Procedure

Heat Parts A and B separately to 65°C. Slowly add Part B to Part A with homogenization and continue blending for an appropriate time. Stir cool to 40°-45°C. Add fragrance and preservative. Package.

Typical Properties

Appearance	Smooth white creme
pH	5.9

VERY LIQUID WATER-IN-OIL **BODY LOTION** A low viscosity lotion with excellent temperature stability.

Ingredients	% by weight	
Part A		
ARLACEL® P135	2.0	S
ARLAMOL® E	1.8	1.7
Cyclomethicone	4.2	K
ARLAMOL® HD	12.0	
Part B		N
ATLAS° G-2330	4.0	IV
Magnesium sulphate	.7	
Demineralised water	75.3	С
Part C		А
Preservative	qs	A
	100.0	R
		E

Procedure

Heat phase A and B separately to 75°C. Slowly add B to A with vigorous agitation. Add phase C to phase A/B below 45°C. Allow to cool to room temperature while stirring at 100 rpm.

W/O/W INTENSIVE **MOISTURIZER** K A smooth and light lotion with excellent spreadability. N R E

Ingredients	% by weight
PRIMARY EMULSION	
Part A	
ARLACEL® P135	2.00
ARLAMOL® E	7.50
ARLAMOL® HD	15.00
Part B	
Demineralised water	67.00
Part C	
Preservative	.50

Procedure

Heat A and B separately to 75°C. Add C to B just before emulsification. Slowly add C/B to A with good agitation. Homogenize thoroughly for one minute. Return to rapid stirring and when temperature drops to 45°C homogenize again. Stir to room temperature and package

Ingredients	% by weight
SECONDARY EMULSIC	ON
Part A	
Primary emulsion	50.00
Part B	
ARLATONE® 2121	5.00
Demineralised water	44.00
Xanthan gum	.50
Part C	
Preservative	qs
	100.0

Procedure

Disperse xanthan gum in water while stirring vigorously and heat to 80°C. Slowly add A to B while continuing to stir vigorously. Add C below 35°C and cool to room temperature while stirring.

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Disperse Carbopol in water. Heat A and B to 70°C separately. Add A quickly to B while stirring vigorously. Homogenize intensively for 1 minute. Add C and D below 40°C. Adjust pH to 5.5 to 6.0 with 10% NaOH solution. Cool to room temperature with moderate stirring.

Procedure

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Ingredients	% by weight
Part A	
BRIJ® 721	2.00
BRIJ® 72	2.00
ESTOL® 3603	4.00
PRIPURE® 3786	6.00
PRISORINE® 2039	2.00
Tocopherol	.50
Aloe Vera	.50
Dimethicone	.50
Part B	
PRICERINE® 9088	4.00
Methylparaben	.17
Propylparaben	.03
DMDM Hydantoin	.30
Demineralised Water	77.20
Part C	
d-Panthenol	.50
Sodium Hyaluronate	.50
	100.0

Procedure

Heat phase A and B separately to 75°C. Mix B to A until homogenous.

Homegenise. Allow to cool to 40°C while mixing at 100 rpm. Add phase C to phase A/B and allow to emulsify while mixing at 250 rpm. Allow to cool to room temperature while stirring at 100 rpm.

CONDITIONING LOW VISCOUS SPRAYABLE LOTION

An elegant, versatile lotion with excellent spreading properties, which also enhances the conditioning and moisturization of the skin.

Ingredients	% by weight	
Part A		
ARLATONE® 983S	1.65	_
BRIJ° 76	1.65	S
ESTOL® 3609	5.00	
PRIPURE® 3786	5.00	K
PRISORINE® 2039	2.00	1.7
Tocopherol	.50	
Aloe Vera	1.00	ı
ARLATONE® 985	1.00	
Dimethicone	.30	N
Part B		
PRICERINE® 9088	4.00	
Methylparaben	.17	
Propylparaben	.03	C
DMDM Hydantoin	.30	
Demineralised Water	76.09	Α
		, .
Part C		D
d-Panthenol	.50	R
Sodium Hyaluronate	.50	
		E
	100.0	

Procedure

Heat phase A and B separately to 75°C. Mix B to A until homogenous. Homegenise Allow to cool to 40°C while mixing at 100 rpm Add phase C to phase

A/B and allow to emulsify while mixing at 250 rmp. Allow to cool to room temperature while stirring at 100 rpm.

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suns harmful rays.

Ingredients	% by weight
Part A	
Water	62.10
Na ₂ EDTA	0.05
Hydroxyethyl Cellulose	0.25
Ultra Micronized Titanium	3.00
Dioxide	
AMP	0.85
Part B	
C ₁₂₋₁₅ Alkyl Benzoate	6.00
Octyl Methoxycinnamate	7.50
Octyl Salicylate	2.00
Cetyl Alcohol	2.50
ESTOL 3737	3.00
ARLATONE MAP 180	2.50
PEG-150 Distearate	0.25
MONASIL PCA	1.00
Menthyl Anthranilate	3.00
Part C	
Benzophenone-3	3.00
Part D	
PHOSPHOLIPID GLA	6.00
	100.00

Procedure

To water add the EDTA, disperse the titanium dioxide and the hydroxyethly cellulose. Heat to 75°C-80°C, then add AMP. Combine ingredients of Part B, heat to 75°C and add to Part A. Homogenize. Adjust pH to 6.0-6.5. Discontinue heating, add the benzophenone-3 and PHOSPHOLIPID GLA. Stir to 50°C. Add fragrance and preservative. Package.

MOISTURIZING SUNSCREEN

This highly moisturizing formulation utilizes ARLATONE MAP 160 to assist in the dispersion of the sunscreen and allows for a uniform layer of the creme to deposit on the skin. The PHOSPHOLIPID SV provides emulsification, skin smoothing and conditioning properties

Ingredients	% by weight	
Part A		
ARLATONE MAP 160	1.0	S
PHOSPHOLIPID SV	2.5	3
KOH (45%)	0.4	V
Titanium Dioxide	0.4	K
Water	79.1	
Part B		N
Cetyl Alcohol	2.0	1.71
C12-15 Alkyl Benzoate	1.6	
ESTOL 1517	2.0	
Dimethicone	1.0	0
Octyl Methoxycinnamate	6.0	C
Menthyl Anthranilate	3.0	Λ
BRIJ 72	1.0	A
Procedure	100.0	R
		Ε

Heat Parts A and B separately to 65°C. Slowly add Part B to Part A with homogenization and continue blending for an appropriate time. Stir cool to 40°-45°C. Add color, fragrance and preservative. Package.

Typical Properties

SPF	~ 15
Viscosity @ 25°C	250,000 cP
рH	6

Ref F-673

S K I N C A R E

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MILK ENRICH	LD \
SUNSCREEN	
STICK	11311
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	pline.
This non-volatile	454 _{je} s
PABA-free water	
	1.00
proof sunscreen	
stick has an SPF	en Fr
factor of	
approximately 15).
MONALAC ML	
provides a rich,	
the supplier of the second	
smooth, protecti	ve
and non-greasy	feel
ILLAND CAPICA	
to the skin and	
readily solubilize	S
the sunscreen	
	Mar and
actives.	

Ingredients	% by weight
MONALAC ML	75.0
Ozokerite #1 Wax	15.0
Octyl Methoxycinnamate	7.0
Benzophenone-3	3.0
	100.0

Procedure

Blend the MONALAC ML and Ozokerite #1 together at 65°-75°C. Avoid air entrainment. When uniform, add other ingredients one at a time and continue blending until clear. Reduce heat. Add fragrance, antioxidant (optional) and preservative. Pour at 50°-60°C into package. A rich, smooth protective and non-greasy skin covering will be provided.

Typical Properties

Appearance

Off-white solid

SELF-TANNING LOTION A formulation that adds color to the

skin indoors or outdoors. The combination of PHOSPHOLIPID SV and MONASIL PCA provides long-lasting conditioning and smoothing.

Ingredients	% by weight
Part A	
Water	82.9
PHOSPHOLIPID SV	3.0
Propylene Glycol	2.0
, , , , , , , , , , , , , , , , , , ,	
Part B	
ARLATONE MAP 160	1.0
Cetyl Alcohol	2.0
Hexyl Laurate	1.0
MONASIL PCA	2.0
Part C	
Triethanolamine (99%)	1.0
Sodium Metabisulfite	0.1
Dihydroxyacetone	5.0
	100.0

Procedure

Combine Part A while heating to 75°C. Separately, mix Part B while heating to 70°C. Add Part B to Part A slowly; homogenize. Add triethanolamine and sodium metabisulfite. Stir cool to 60°C. Add dihydroxyacetone. Cool to 50°C. Add fragrance and preservative. Package.

Typical Properties

Appearance	Moderately viscous
	opaque lotion
Viscosity @ 25°C	48,000 cP
рH	5.5

R

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S K I N C A R E

O/W SUNSCREEN LOTION (SPF 5) This is a light,

This is a light, elegant skin care lotion providing broad-spectrum UV protection via Spectraveil AQ, a unique aqueous dispersion of zinc oxide which facilitates easy incorporation of zinc oxide into oil-in-water emulsions

Ingredients	% by weight	
Part A		
ARLACEL® 165	5.00	
Stearyl alcohol	1.00	
Mineral oil, light	6.00	
Dimethicone, 350cs	2.00	
Sweet almond oil	3.00	
C12-15 Alkyl benzoate	4.50	
Part B		
Demineralised water	61.40	
Carbomer	.20	
PRICERINE® 9088	4.00	
SPECTRAVEIL® AQ	12.50	
Part C		
Preservative	qs	
	100.0	

Procedure

Disperse carbopol in water and add glycerol. Add SPECTRAVEIL AQ with vigorous stirring. Heat phase A and B to 80°C. Add A to B with continuous stirring. Homogenize. Cool to 45°C while stirring and add phase C. Cool to room temperature while stirring.

O/W SUNSCREEN LOTION (SPF 15)

This formulation is based on a "liquid crystal gel network" or "hydrosome" system, which gives excellent emulsion stability. The liquid crystal gel network also maintains optimal distribution of the aqueous TiO2 dispersion, ensuring good SPF efficacy.

Ingredients	% by weight	
Part A		
ESTOL® 1543	5.00	C
Cetearyl Octanoate	5.00	3
Dimethicone, 100cs	3.00	1/
Oxynex 2004,BHT, Glyceryl	Stearate,	K
Glyceryl Oleate, Ascorbyl Pa	almitate,	ı
Citric Acid, Propylene Glyco	ol .05	I
White Beeswax	3.50	N
Part B		
ARLATONE® 2121	5.50	
Xanthan Gum	.20	_
Sodium Lactalate, 70% solu	ition .30	C
Demineralised Water	61.65	
TIOVEIL® AQ-G	15.00	A
Preservative	qs	
	100.0	R
	100.0	_
Procedure		E

Procedure

Mix water and sodium lactate and heat to 80°C. Melt ARLATONE 2121 and add this to the hot water phase with vigorous stirring. Disperse xanthan gum into the hot water phase. Add TIOVEIL AQ with vigorous stirring. Heat phase A to 80°C and mix until homogenize. Add phase A to phase B with high sheer mixing. Cool to room temperature while stirring moderately. Homogenize briefly.

S K I N C A R E

O/W SUNSCREEN LOTION (SPF 20) This formula demonstrates how

Uniqema
ingredients can be
combined to
provide the entire
"framework" of a
formulation. The
combination of
Span 40, Tween 20,
Estol 1474 and
ARLATONE
MAP160K provides

ARLATONE
MAP160K provides
an optimized
system to fully
utilize the
advantages of
Solaveil's new
range of oil-based
TiO2 dispersions,
Tioveil 50.

Ingredients	% by weight
Part A	
ESTOL® 1474	2.00
Diisostearyl Trimethylolpro	pane
Siloxy Silicate	3.00
ARLATONE® MAP 160K	.50
SPAN® 40	3.50
Dimethicone, 100cs	1.50
Beeswax, white pellets	3.50
TIOVEL® 50 FIN	15.00
Part B	
Xanthan Gum	.20
Magnesium Aluminium Sili	cate .80
Demineralised Water	61.45
Preservative	qs
TWEEN® 20	3.50
Sodium lactate, 70% solut	ion .30
	100.0

Procedure

Disperse xanthan gum and veegum in water. Add remaining B ingredients and heat to 75°C. Heat A to 75°C. Add A to B and homogenize for 2 minutes. Cool to room temperature while stirring slowly.

O/W SUNSCREEN LOTION (SPF 30)

This is one of a series of formulations which demonstrate the synergistic effects which arise from combining a physical sunscreen (titanium dioxide) with an organic sunscreen (octyl methoxycinnamate). This allows high SPF values to be achieved with minimal levels of actives, thus making formulations more cost-effective.

Ingredients	% by weight	
Part A		
ESTOL® 1514	4.0	
Mineral oil	6.5	S
Grape seed oil	2.5	
Stearyl alcohol	2.0	K
Petrolatum	2.0	• •
Octyl methoxycinnimate	5.0	ı
Part B		•
Demineralised water	51.8	N
SPAN® 60	6.0	
MONAMATE® RMEA 40	.2	
PRICERINE® 9088	4.0	
ALLANTOIN®	.2	_
d-Panthenol	.8	C
TIOVEIL® AQ	15.0	_
Part C		A
Preservative	qs'	R
	100.0	_
		E

Procedure

Heat A and B separately to 80°C. Add A to B while stirring vigorously.

Homogenize. Cool to room temperature while stirring slowly. Add C.

S K I N C A R E

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Ingredients	% by weight
Part A	
ARLACEL® P135	2.00
Mineral oil	7.00
ARLAMOL® HD	5.00
ESTOL® 3603	7.00
ESTOL® 1543	8.00
ARLAMOL® E	3.50
ATLAS° 1500	.80
Oxokerite	1.20
Cyclomethicone	1.50
TIOVEIL® 50 MOTG	16.00
Part B	
Demineralised Water	47.50
Sodium chloride	.05
Preservative	qs
	100.0

Procedure

Heat phases A and B separately to 75°C. Slowly add B to A with intensive stirring. Homogenize. Cool to room temperature while stirring.

REFRESHING SKIN TONER

A light, refreshing toner for overall body usage after a day at the beach.

MONASIL PLN adds substantive, non-occlusive conditioning for long-lasting benefits.

Ingredients	% by weight	
Part A		
Water	50.0	
Carbomer	0.4	
Triethanolamine (99%)	0.6	
MONASIL PLN	3.0	
Part B		
Water	30.0	
Cetyl Alcohol	1.0	
Ethanol	15.0	
<u></u>	100.0	

Procedure

Part A

Charge water; slowly and carefully add carbomer with agitation. Add remaining ingredients and mix until a smooth white lotion is formed.

Part B

Heat with agitation the water and cetyl alcohol to 65°C. Cool to 45°C; add ethanol. Blend Part B with Part A. Add color, fragrance and preservative. Package.

Typical Properties

Appearance White viscous lotion Viscosity @ 25°C 38,000 cP

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Ingredients	% by weight	
Part A		
Water	86.25	
PHOSPHOLIPID SV	3.00	
Propylene Glycol	2.00	
Part B		
ARLATONE MAP 160	1.00	
Cetyl Alcohol	2.00	
Hexyl Laurate	1.00	
MONASIL PCA	2.00	
Part C		
AMP (95%)	0.35	
Part D		
Titanium Dioxide	0.40	
Part E		
Aloe Vera Gel 1:1	2.00	
	100.00	

Procedure

Combine Part A while heating to 70°C. Separately, mix Part B while heating to 70°C. Add Part B to Part A slowly with rapid agitation. Add Part C. Add Part D, homogenize, cool to 50°C. Add aloe vera, color, fragrance and preservative. Package.

Typical Properties

Appearance Viscosity pH White flowable lotion

23,400 cP

6.1

Ref F-836

SIMPLE BATH GEL

A bath gel that provides volumes of dense, lubricious foam.

Ingredients	% by weight	
Part A		
Ammonium lauryl sulfate		Т
(28% active)	28.50	•
MONATERIC® CAB-LC	7.10	0
ARLATONE® MAP 950	2.50	_
Part B		
Sodium chloride	1.00	•
Jodium emonde	1.00	L
Part C		E
Potassium hydroxide	•	_
(50% solution) qs	to pH of 6.5	T
Part D		D
Preservative	qs	K
		ı
	100.0	
		E

Procedure

Stir A to room temperature until the mixture is uniform. Add B to A with moderate stirring. Adjust the pH with C while stirring moderately. Add D and stir until uniform and package.

T O I L E T R I E S

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Ingredients	% by weight
ARLATONE® DUO	20.00
Water	75.40
Xanthan Gum	0.10
ARLATONE® MAP 950	2.50
Triethanolamine	q.s. to pH 7.0
Dimethicone	2.00
Quaternium-15	q.s.

	100.0

Procedure

Heat water to 80°C and disperse xanthan gum and the ARLATONE DUO with vigorous stirring. Add B to A with moderate stirring. Add C to A/B mixture below 50°C. Add D below 40°C. Cool to room temperature with continuous stirring.

CONDITIONING SHOWER GEL

This high-foaming formulation provides gentle cleansing and leaves the skin feeling conditioned. PHOSPHOLIPID EFA helps to minimize dry skin conditions.

Ingredients	% by weight
Water	55.5
PHOSPHOLIPID EFA	2.0
Sodium Laureth-2 Sulfate (26%)	35.0
MONATERIC CAB-LC	5.0
MONAMID CMA/M	2.0
Sodium Chloride	0.5
	100.0

Procedure

Add ingredients in the order listed making sure each one is completely dissolved before adding the next ingredient. Heat to 60°-70°C to incorporate MONAMID EMA/M. Cool to 40°C. Add color, fragrance, and preservative as required. S Package.

T O I L E T R I E S

FLOATING BATH OIL This formulation effectively spreads out on the bath surface and moist skin letting the emollients soften and smooth the skin.

Ingredients	% by weight
ESTOL® 1517	50.0
Dioctyl Adipate	39.9
Mineral Oil	10.0
MONAWET MO-84R2W	0.1
	100.0

Procedure

Combine ingredients with agitation. Add color, fragrance and preservative.

Package.

Typical Properties

Appearance Clear liquid

ANTI-PERSPIRANT LOTION

When this lotion is applied, it imparts a smooth, dry feel and also has a low potential for skin irritation.

Ingredients	% by weight	
Part A		
ARLATONE® 983S	1.75	
BRIJ® 76	1.75	7
ESTOL® 1543	4.00	
PRIPURE® 3786	3.00	(
ESTOL® 3609	4.00	
Behenyl Alcohol	3.00	
ARLATONE® 985	2.00	
Part B		ı
PRICERINE® 9088	4.00	1.
Methylparaben	.17	E
Propylparaben	.03	
DMDM Hydantoin	.20	
Demineralised Water	36.10	1
Part C		F
Aluminum Chlorohydrate	40.00	r
	100.00	
Procedure		E

Heat phase A and B separately to 75°C. Mix B to A at 300 rpm. Homogenize for approximately 20 seconds to emulsify. Allow to cool to 45°C while stirring at 100 rpm. Mix in C at 300 rpm. Allow to cool to room temperature while stirring at 100 rpm.

T O I L E T R I E S

DEODORANT CREME A non-greasy creme formulation that is quickly absorbed into the skin. PHOSPHOLIPID CDM conditions and imparts a fresh and clean after-feel to the skin and provides longer-lasting deodorant protection.

Ingredients	% by weight
Part A	
PHOSPHOLIPID CDM	1.0
BRIJ 78	1.4
PRICERINE 9088	5.0
Methylparaben	0.1
Water	83.5
Part B	
BRIJ 72	2.0
Cetyl Alcohol	4.0
ESTOL 1514	3.0
	100.0

Procedure

Combine ingredients in both parts separately, and heat to 65°C.

Homogenize Part B and Part A with continued heating until sufficiently mixed. Stir cool to 45°C. Add color, fragrance and preservative. Package.

DEODORANT STICK WITH PHOSPHOLIPID CDM

This clear stick applies easily and provides long lasting deodorant protection, while leaving an emollient after-feel to the skin.

	(R68.03-159.06)
Ingredients	% by weight
Propylene Glycol	50.5
RENEX® PEG 1500FL	6.0
PROMIDIUM SY	7.0
PHOSPHOLIPID CDM	1.0
Triclosan	0.1
MONATERIC CLV	2.5
Fragrance	2.0
Sodium Stearate	6.0
Demineralised Water	24.9
	100.0

Procedure

Heat the Promidium SY, propylene glycol and the Renex PEG 1500FL to 70-75°C. Add the triclosan. Mix. Add fragrance, Phospholipid CDM and Monateric CLV stirring slowly. Add sodium stearate, when melted, stir and add water slowly. Discontinue heating. Cool to 40°C, fill warm.

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Ingredients	% by weight
PRISTERINE® 4905	8.0
Ethanol	73.6
Propylene Glycol	10.0
ESTOL 1517	5.0
PHOSPHOLIPID PTC	1.0
Sodium Hydroxide 50%	2.4
·	100.0

Procedure

Blend ingredients together, except the sodium hydroxide. Heat and agitate to 65°-70°C, then slowly neutralize the stearic acid with the sodium hydroxide 50% and continue mixing until clear. Cool slightly to 70°C. Add color and fragrance. Package.

Typical Properties

Appearance Translucent solid

FRESH AND CONFIDENT FEMININE WASH

This high-foaming concentrated formulation provides gentle and thorough cleansing while imparting a fresh and clean after-feel. Its safety and effectiveness provide the user with an extra degree of confidence and protection.

Ingredients	% by weight	
PHOSPHOLIPID P	TC 2.0	
MONATERIC 949-	J 9.0	T
Sodium Laureth-2 Sulfate (26%)	30.0	0
Water	59.0	i
	100.0	L
Procedure		E
Blend ingredients in		T
adjusting pH to 5.5-	6.0. Add color,	D
fragrance and preservative. Package		R
Typical Properties	s	
Appearance	Clear liquid	E
Viscosity @ 25°C	12,000 cP	S

CONDITIONING AFTER SHAVE TONER

In this formulation, PHOSPHOLIPID SV provides a rich, smooth and nongreasy feel to the skin.

Ingredients	% by weight
Part A	
Water	51.0
Carbomer	0.4
Phenyl Dimethicone	2.0
Triethanolamine (99%)	0.6
Part B	
Water	30.0
PHOSPHOLIPID SV	1.0
Ethanol	15.0
	100.0

Procedure

Slurry carbomer into water by first mixing it with phenyl dimethicone. Allow to mix until homogeneous. Add triethanolamine. Mix water and PHOSPHOLIPID SV. Heat to 65°C with agitation until the PHOSPHOLIPID SV is dissolved. Cool to 30°-40°C and add ethanol. Blend Part B with Part A until a smooth lotion is formed. Add color, fragrance and preservative. Package.

Typical Properties

Appearance	Translucent lotion
рН	7.0
Viscosity @ 25°C	14500 cP

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PHOSPHOLIPID	16.61(1)
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Ingredients	% by weight
PHOSPHOLIPID PTC	1.0
Propylene Glycol	3.0
PEG-75 Lanolin	0.2
Water	95.8
- · · · · · · · · · · · · · · · · · · ·	100.0

Procedure

Combine ingredients with agitation. Add color, fragrance and preservative.

Package.

Appearance	Clear pale yellow liquid
pH (as is)	6.5

MOISTURIZING MAKE-UP FOUNDATION

An elegant product containing PHOSPHOLIPID EFA, which provides smooth feel and coverage while eliminating the normal drying effects of cosmetic pigments on skin.

Ingredients	% by weight
Part A	
PHOSPHOLIPID EFA	3.0
0.5% Xanthan Gum in 1% NaCl Solution	65.0
Propylene Glycol	8.0
Pigment	15.0
BRIJ® 78	1.6
Part B	
ESTOL 1517	2.0
Hexyl Laurate	2.0
BRIJ 72	2.4
Dimethicone	1.0
	100.0

Procedure

Combine ingredients in Parts A and B as shown, and heat to 55°C. Blend Part B into Part A with sufficient homogenization to ensure good emulsification. Stir cool to 40°C. Add fragrance and preservative. Package.

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MILK LIPID ENRICHED STICK BASE An elegant moisturizing stick base

izing stick base.

MONALAC ML
provides longlasting rich smoothness and gloss.
Useful for color
cosmetics, cologne
sticks, waterproof
sun screen preparations, eye-area
moisturizers and
skin protectants.

Ingredients	% by weight
MONALAC ML	40.0
Beeswax USP/NF White	10.0
Candelilla Wax-75	8.0
Castor Oil USP	39.0
Carnauba Wax	2.0
Ozokerite SP 1020P	1.0
	100.0

Procedure

Heat with slow agitation to 85°C. Avoid air entrainment. When uniform, add fragrance/flavor, pigments, sunscreens or other functional ingredients as required. Package.

Appearance	Off-white solid
Melting Point	~ 43°C

EVERYDAY SHAMPOO

This shampoo is an excellent choice for everyday use where the mild detergency and anti-irritants help prevent damage to the hair and scalp.

Ingredients	% by weight	
Water	19.8	
Ammonium Laureth-1 Sulfate (25%)	57.7	Н
arlatone MAP 230K-40	12.5	Α
MONATERIC 949-J	8.0	
PHOSPHOLIPID PTC	2.0	
	100.0	R

Procedure

Blend in order listed. Adjust pH to 6.5-7.0. Add color, fragrance and preservative. Package.

Typical Properties

Appearance Clear viscous liquid
Viscosity @ 25°C 10,800 cP
Solids (%) 24

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Ingredients	% by weight
Water	35.2
Ammonium Laureth-2 Sulfate (25%)	30.0
Ammonium Lauryl Sulfate (28%)	20.0
MONATERIC 949-J	10.0
Cetyltrimonium Chloride	0.8
ESTOL 3750	1.0
MONASIL PLN	3.0
	100.0

Procedure

Blend ingredients, heat to 65°-70°C. Stir, cool to 30°-35°C. Adjust pH to 6.0 with 50% citric acid. Add color, fragrance and preservative as required. Package.

Typical Properties

Appearance

Pearled viscous

Liquid

Viscosity @ 25°C 11,000 cP

NEUTRALIZING SHAMPOO

A low pH conditioning shampoo that will provide effective neutralization of highly alkaline hair treatments such as relaxers and perms.

Ingredients	% by weight	
Water	46.0	
Sodium C14-16 Olefin Sulfonate (40%)	40.0	Н
MONALAC MAB	10.0	Α
PHOSPHOLIPID EFA	2.0	
Sodium Chloride	2.0	ı
•	100.0	R

Procedure

Add first three ingredients with mild heat.

Sequentially, blend in remaining
ingredients. Adjust pH to 3.5-4.0. Add
color, fragrance and preservative.

Package.

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Appearance	Clear viscous fluid
Solids (%)	22

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\$3500 Deliteration				0.50

Ingredients	% by weight
Demineralised water	30.80
Sodium laureth-2 sulfate (26%) 55.00
PROMIDIUM° CO	3.00
PROMIDIUM® SY	1.00
MONATERIC® CAB-LC	6.70
MONAQUAT® SL-5	2.50
Propylene glycol	.50
Disodium EDTA	.20
Herbal fragrance	.20
Citric acid	.10
Preservative	qs
	100.0
	100.0

Procedure

With stirring combine all ingredients in the order listed. Add color, fragrance and preservative. Adjust the pH to 6.0 with the citric acid.

SHAMPOO FOR COLOR-TREATED HAIR

A balanced formulation that will not strip permed or color-treated hair and will leave hair highly manageable.

Ingredients	% by weight	
Water	35.5	
Sodium Laureth-2 Sulfate (26%)	40.0	Н
MONATERIC CLV	16.0	Α
MONAMATE LNT-40	7.0	
PHOSPHOLIPID EFA	1.5	
	100.0	R

Procedure

Blend together at room temperature. Mix well then adjust the pH to 5.5. Add color, fragrance and preservative. Package.

Typical Properties

Appearance Clear viscous liquid
Viscosity @ 25°C 9,000 cP
Solids (%) 21

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Ingredients	% by weight
Water	90.4
Hydroxyethyl Cellulose	0.5
ESTOL 3750	1.5
Cetyl Alcohol	1.8
MONAQUAT SL-5	5.5
PHOSPHOLIPID GLA	0.3
	100.0

Procedure

Charge water; slowly add hydroxyethyl cellulose with agitation. Add remaining ingredients and heat to 65°-70°C. Stir cool to 40°C. Add color, fragrance and preservative. Package.

Appearance	White pearled lotion
Viscosity @ 25°C	2,500 cP
рН	6.5

REJUVENATING HAIR CONDITIONER

The unique combination of PHOSPHOLIPID EFA and MONAQUAT SL-5 effectively conditions even the most damaged hair. It will provide a soft-silky feel and a noticeable sheen to hair.

Ingredients	% by weight	
Water	85.1	
Hydroxyethyl Cellulose	0.7	Н
ESTOL 3750	2.0	
Cetearyl Alcohol	2.5	A
MONAQUAT SL-5	6.7	I
PHOSPHOLIPID EFA	3.0	_
	100.0	R

Procedure

Charge water; carefully add hydroxyethyl cellulose with agitation. Heat to 70°C and add remaining ingredients. Stir cool to 45°C and adjust pH to 4.5-5.0. Add color, fragrance and preservative as required. Continue agitation while cooling down to room temperature. Package

Typical Properties

Appearance

A milky white lotion

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HEAT ACTIVE CONDITIONER This heat-activated conditioner utilizes Monasil PLN to provide excellent wet comb, antistatic, sheen and dry comb properties to hair.

Ingredients	% by weight
Water	83.08
MONASIL PLN	4.00
Propylene Glycol	1.00
Cetearyl Alcohol	4.00
Brij [®] 721S	3.47
Quarternium-18	2.00
Cyclomethicone	2.00
	100.00

Procedure

Mix ingredients except cyclomethicone while heating to 65-70°C. Cool to 60-63°C, add cyclomethicone. Agitate until uniform. Cool to 40-45°C. Add color, fragrance and preservative. Package.

Typical Properties

рН

6

Viscosity @25°C

15,500 cP

HAIR CONDITIONER WITH ALOE FOR SUN-DAMAGED HAIR

A lotion conditioner that provides extra conditioning and protection for sundamaged hair.

Ingredients	% by weight
Water	83.6
Hydroxyethyl Cellulose	0.7
ESTOL 3750	2.0
Cetearyl Alcohol	2.5
MONAQUAT SL-5	6.7
PHOSPHOLIPID SV	3.0
Benzophenone 3	0.5
Aloe Vera Gel 1:1	1.0
<u> </u>	100.0

Procedure

Charge water; carefully add hydroxyethyl cellulose with agitation. Heat to 70°C and add remaining ingredients. Stir cool to 45°C and adjust pH to 4.5. Add color, fragrance and preservative. Package.

Typical Properties

Appearance	White flowable lotion
Viscosity	5,000 cP
рН	6.5

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SHINE REJUVENATOR

A finishing treatment that is misted onto the hair and provides light conditioning and excellent sheen to dull hair.

Ingredients	% by weight
Water	98.0
PHOSPHOLIPID EFA	1.0
MONASIL PLN	1.0
	100.0

Procedure

Blend ingredients; adjust pH to 4.5-5.0. Add color, fragrance and preservative as required. Package.

Typical Properties

Appearance Clear liquid

CONDITIONING GEL POMADE

This gel imparts a thin, uniform, transparent, and washable film to the hair.

Ingredients	% by weight	
Part A		
ARLAMOL® E	5.00	Н
Mineral oil, light	6.00	_
BRIJ 93	6.00	A
ARLASOLVE® 200		ı
LIQUID/GEL	27.80	_
Propylene glycol	5.00	R
FORESTALL®	1.40	
Demineralised water Part B	41.80	С
Preservative	qs	A
	100.0	R
Procedure		F

Procedure

Heat A to 80°C while stirring. Remove from heat and add any water lost due to evaporation. (correct water level is critical to gelling) Stir until clear and uniform and add preservative according to manufacturers directions.

H A I R C A R E

ODORLESS CREME RELAXER This product utilizes ARLATONE MAP 180 as an invert emulsifier providing a smooth feel and coverage while eliminating the normally irritating effects of caustic relaxers. PHOSPHOLIPID SV is a secondary emulsifier that offers emolliency and a high degree

of conditioning for a

healthy scalp.

Ingredients	% by weight
Part A	
ARLATONE MAP 180	3.5
Stearyl Alcohol	3.5
Petrolatum	10.0
Mineral Oil	25.0
Part B	
PHOSPHOLIPID SV	3.0
Propylene Glycol	2.0
Water	48.0
Potassium Hydroxide (45%) 5.0
	100.0

Procedure

Heat Part A with agitation to 70°C. Separately heat Part B to 60°C. Homogenize Part B into Part A for a sufficient time to ensure good emulsification. Stir cool to 45°C. Add fragrance and preservative. Package.

Appea	rance	White creme
рΗ	·	13

ALCOHOL-FREE NO VOC HAIR SPRAY

A commerciallyproven mediumhold no-voc pump
formulation for the
rapidly emerging
alcohol-free hair
spray arena. This
non-flaking formulation will not dry
out the hair like
conventional hair
sprays and is ultraenvironmentally
friendly.

Ingredients	% by weight	
Water	84.46	
AMP Regular	0.99	Н
BALANCE® 0/55 Acrylates Copolymer	14.00	Α
MONAWET MO-70R	0.30	·
PRICERINE® 9088	0.25	1
	100.00	R

Procedure

Combine ingredients in order shown with mild agitation. Add fragrance and preservative. Package in pump hair spray container.

Typical Properties

Appearance	Clear
рН	8.5
Viscosity @ 25°C	8 сР

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Ingredients	% by weight
Part A	
Water	45.21
AMP Regular	0.66
BALANCE® 0/55 Acrylates Copolymer	11.00
MONAWET MO-70R	0.30
PRICERINE® 9088	0.25
Part B	33.00
	100.00

Procedure

Blend Part A together in order shown with mild agitation. Add fragrance and preservative. Fill and crimp aluminum aerosol container. Charge with Part B.

рН	8.5
VOC	33%

FINISHING PUMP SPRAY

A light fixative spray that provides a conditioning sheen through the use of **PHOSPHOLIPID** EFA.

Ingredients	% by weight
SD Alcohol 40	49.6
RESYN® 28-2930	3.7
Water	45.7
Aminomethylpropanol	0.4
PHOSPHOLIPID EFA	0.6
	100.0

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Procedure

Add vinyl acetate/crotonates copolymer to alcohol slowly with adequate agitation; mix until well dispersed. Add aminomethylpropanol to neutralize, and mix R until dissolved. Add remaining ingredients, color and fragrance. Package.

Appearance	Clear liquid
рН	7.1 ´

INCI GLOSSARY

ALLANTOIN Allantoin AMP Aminomethylpropanol (Angus Chemical Co.) ARLACEL P135 PEG-30 Dipolyhydroxystearate ARLACEL 165 Glyceryl Stearate (and) PEG-100 Stearate
ARLACEL P135 PEG-30 Dipolyhydroxystearate ARLACEL 165 Glyceryl Stearate (and) PEG-100 Stearate
ARLACEL 165 Glyceryl Stearate (and) PEG-100 Stearate
ADI ARAOL F DDC 15 Steemil Ether
ARLAMOL E PPG-15 Stearyl Ether
ARLAMOL HD Isohexadecane
ARLAMOL ISML Isosorbide Laurate
ARLASOLVE 200 LIQUID/GEL Isoceteth-20
ARLATONE 2121 Sorbitan stearate (and) sucrose cocoate
ARLATONE 983S PEG 5 Glycerol Stearate
ARLATONE 985 Ethoxylated Stearyl Stearate
ARLATONE DUO Proprietary Composition
ARLATONE MAP 160 Cetyl Phosphate*
ARLATONE MAP 180 Stearyl Phosphate*
ARLATONE MAP 230K-40 Potassium C12-13 Monoalkyl Phosphate*
ARLATONE MAP 230T-60 Triethanolamine C12-13 Monoalkyl Phosphate*
ARLATONE MAP 950 Potassium C9-15 Alkyl Phosphate
ATLAS 1500 Glyceryl Stearate
ATLAS G-2330 Sorbeth-30
BALANCE 0/55 Acrylates Copolymer
BRIJ 72 Steareth-2
BRIJ 721 Steareth-21
BRIJ 721S Steareth-21
BRIJ 76 Steareth-10
BRIJ 78 Steareth-20
BRIJ 93 Oleth 2
DME Dimethylether (DuPont)
ESTOL 1474 Glyceryl Stearate
ESTOL 1514 Isopropyl Myristate
ESTOL 1517 Isopropyl Palmitate
ESTOL 1543 Octyl Palmitate
ESTOL 1545 Octyl Stearate
ESTOL 3603 Glycerol Tricaprylate/Caprate
ESTOL 3609 Trioctanoin
ESTOL 3737 Propylene Glycol Stearate
ESTOL 3750 Glycol Distearate
FORESTALL Soyaethyl Morpholineum Ethosulfate
MONALAC MAB Milkamidopropyl Betaine
MONALAC ML Milk Lipid
MONALAC MO Milkamidopropyl Amine Oxide
MONALAC MPL Sodium Milkamidopropyl Dimonium Hydroxypropyl Phosphate Chloride
MONAMATE LNT-40 Ammonium Lauryl Sulfosuccinate

INCI GLOSSARY (continued)

	MONAMATE RMEA-40 Disodium Ricinoleamido MEA-Sulfosuccinate
	MONAMID 716 Lauramide DEA
	MONAMID CMA/M Cocamide MEA
	MONAQUAT SL-5 Dihydroxypropyl PEG-5 Linoleamonium Chloride
	MONASIL PCA PCA Dimethicone
_	MONASIL PLN Linoleamidopropyl PG-Dimonium Chloride
A I	Phosphate Dimethicone MONATERGE 1164 SLS & Disodium Lauryl Sulfosuccinate
N	MONATERGE 779 Cocamide DEA and DEA Laureth Sulfate
	MONATERIC 949-J Disodium Lauroamphodiacetate
C	MONATERIC 949-3 Disodiam Lauroamphodiacetate MONATERIC CAB-LC Cocamidopropyl Betaine
	MONATERIC CAB-LC Cocamidopropyr Betaine MONATERIC CLV Disodium Cocoamphodiacetate
_	MONAWET MO-70R Dioctyl Sodium Sulfosuccinate
	MONAWET MO-76K Dioctyl Sodium Sulfosuccinate
	NEODOL 25-3A Ammonium C12-15 Pareth Sulfate (Shell Chemical Co.)
	OZOKERITE SP 1020P Ozokerite (Strahl & Pitsch, Inc.)
	PHOSPHOLIPID CDM Coco PG-Dimonium Chloride Phosphate
	PHOSPHOLIPID EFA Linoleamidopropyl PG-Dimonium Chloride Phosphate
N	PHOSPHOLIPID GLA Sodium Borageamidopropyl PG-Dimonium
•	Chloride Phosphate
^	PHOSPHOLIPID PTC Cocamidopropyl PG-Dimonium Chloride Phosphate
Α	PHOSPHOLIPID SV Stearamidopropyl PG-Dimonium Chloride
	Phosphate & Cetyl Alcohol
V	PRICERINE 9088 Glycerin
VI	PRIPURE 3786 Diisopropyl Dimer Dilinoleate
	PRISORINE 2039 Isostearyl Isostearate
E	PRISTERINE® 4905 Stearic Acid
_	RENEX PEG 1500FL Carbowax 1540
C	RESYN® 28-2930 VA/Crotonates/Vinyl, Neodecanoate copolymer (National Starch & Chemical)
S	SPAN 40 Sorbitan Palmitate
	SPAN 60 Sorbitan Stearate
	SPECTRAVEIL AQ Zinc Oxide, Water, Silica, PEG-2M, preserved with
•	Nipagin M Sodium
	TIOVEIL AQ-G Water, Titanium Dioxide, Alumina, Silica, Sodium Polyacrylate,
	preserved with Germaben II
	TIOVEIL 50 FIN C12-15 Alkyl Benzoate, Titanium Dioxide, Polyhydroxystearic Acid, Aluminum Stearate, Alumina
	· · · · · · · · · · · · · · · · · · ·

TIOVEIL 50 MOTG Titanium dioxide, Mineral oil, Caprylic/Capric Tryglyceride, Alumina, Polyhydroxystearic acid, Silica

*Proposed INCI Name

TWEEN 20 Polysorbate 20

unigema

Americas

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Chicago, IL 60609-3321 Tel: (773) 376-9000 Fax: (773) 376-0095

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Uniqema, Concord Plaza, 3411 Silverside Road

Wilmington, DE 19810

Tel: (800) 822-8215 or (302) 887-5988

Fax: (302) 887-5302

Europe

Global Headquarters Uniqema, 30 Queen Anne's Gate London, SW1H 9AB United Kingdom

Tel: 44 (0) 171 798 5101 Fax: 44 (0) 171 798 5813

Uniqema, Lot 1, Solok Waja 3, Bukit Raja Industrial Estate, P.O. Box 83 41710 Klang, Selangor Darul Ehsan, Malaysia

Tel: 60 (0) 3 341 2115 Fax: 60 (0) 3 324 7877

www.uniqema.com

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